

# *Cirrhinus inornatus*

## Ecological Risk Screening Summary

Web Version – 10/31/2012

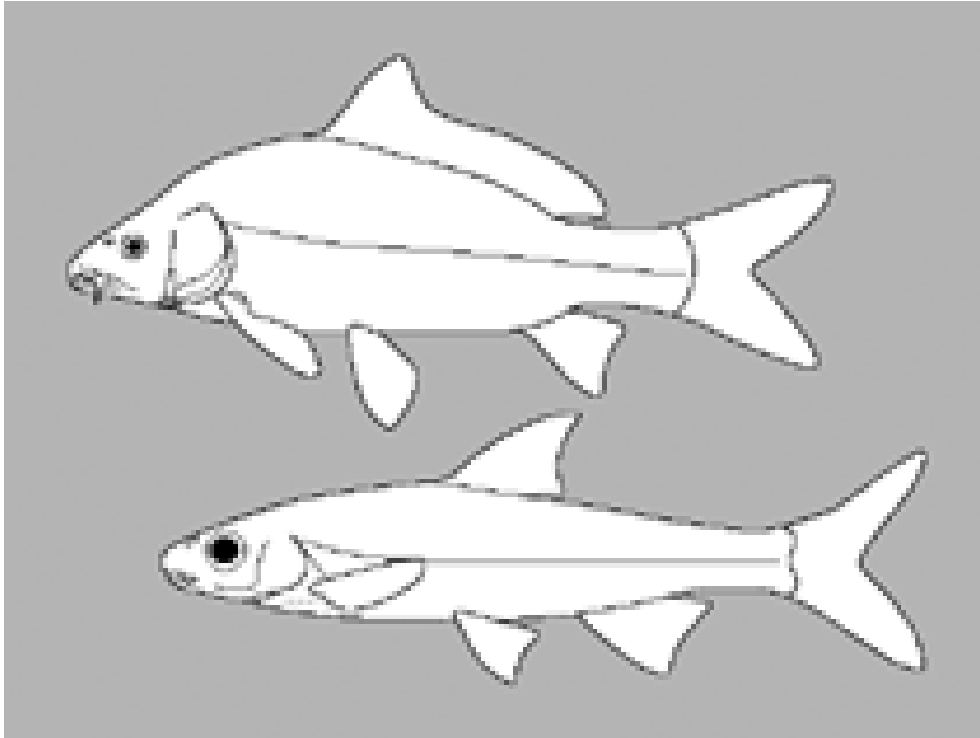


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## 1 Native Range, and Status in the United States

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### Native Range

From Froese and Pauly (2011): “Asia: only from the Irrawaddy and Sittang basins, Myanmar.”

### Status in the United States

No currently known nonindigenous occurrences

### Means of Introductions in the United States

No currently known introductions

## 2 Biology and Ecology

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### Taxonomic Hierarchy and Taxonomic Standing

From ITIS (2011):

Kingdom Animalia  
  Phylum Chordata  
    Subphylum Vertebrata  
      Superclass Osteichthyes  
        Class Actinopterygii  
          Subclass Neopterygi  
            Infraclass Teleostei  
              Superorder Ostariophysi  
                Order Cypriniformes  
                  Superfamily Cyprinoidea  
                    Family Cyprinidae  
                      Genus *Cirrhinus*  
                        Species *Cirrhinus inornatus*

Current Taxonomic Standing: valid

### Size, Weight, Age

From Froese and Pauly (2011): “Max length: 12.9 cm SL male/unsexed; (Roberts 1997)”

### Environment

From Froese and Pauly (2011): “Freshwater; benthopelagic”

### Climate/Range

From Froese and Pauly (2011): “Tropical”

### Distribution

From Froese and Pauly (2011): “Asia: only from the Irrawaddy and Sittang basins, Myanmar.”

### Short description

From Froese and Pauly (2011):

“Dorsal soft rays (total): 9; Vertebrae: 35 - 37. Vomero-palatine organ with only 5 pairs of fimbriate lamella; lamellae comparatively broad, each with up to 20 short fimbriae. Body dull white or silvery overall; fins dusky; colorless; humeral mark present, otherwise no distinctive markings.”

## Diseases

None reported.

## Threat to humans

From Froese and Pauly (2011): “Harmless”

## 3 Impacts of Introductions

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No current records of introductions or impacts of introductions

## 4 Global Distribution

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**Figure 1 (above).** Map showing the known distribution of *Cirrhinus inornatus*. Map from GBIF (2011).

## 5 Distribution within the United States

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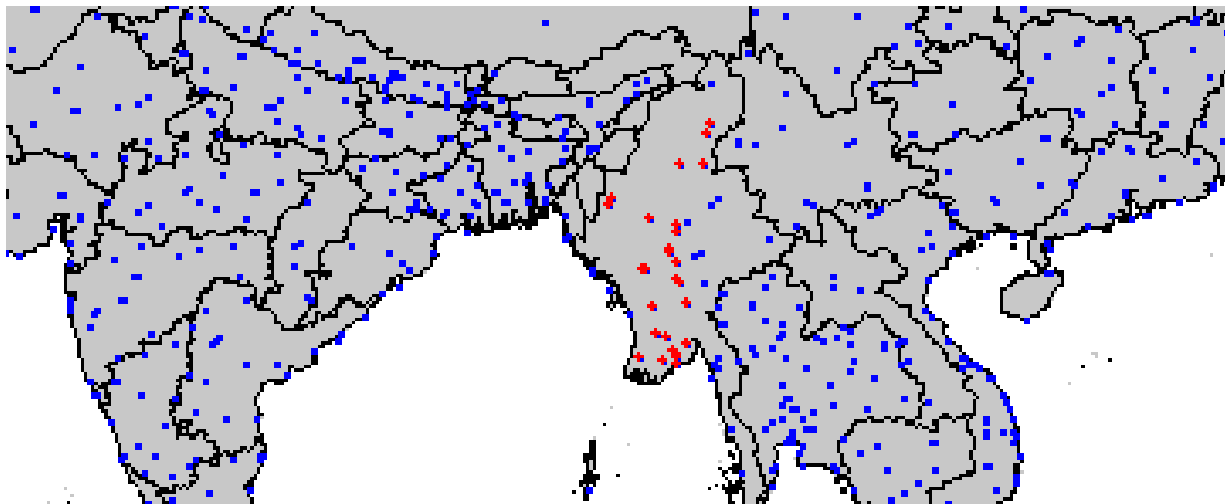
No current distribution within the United States

## 6 CLIMATCH

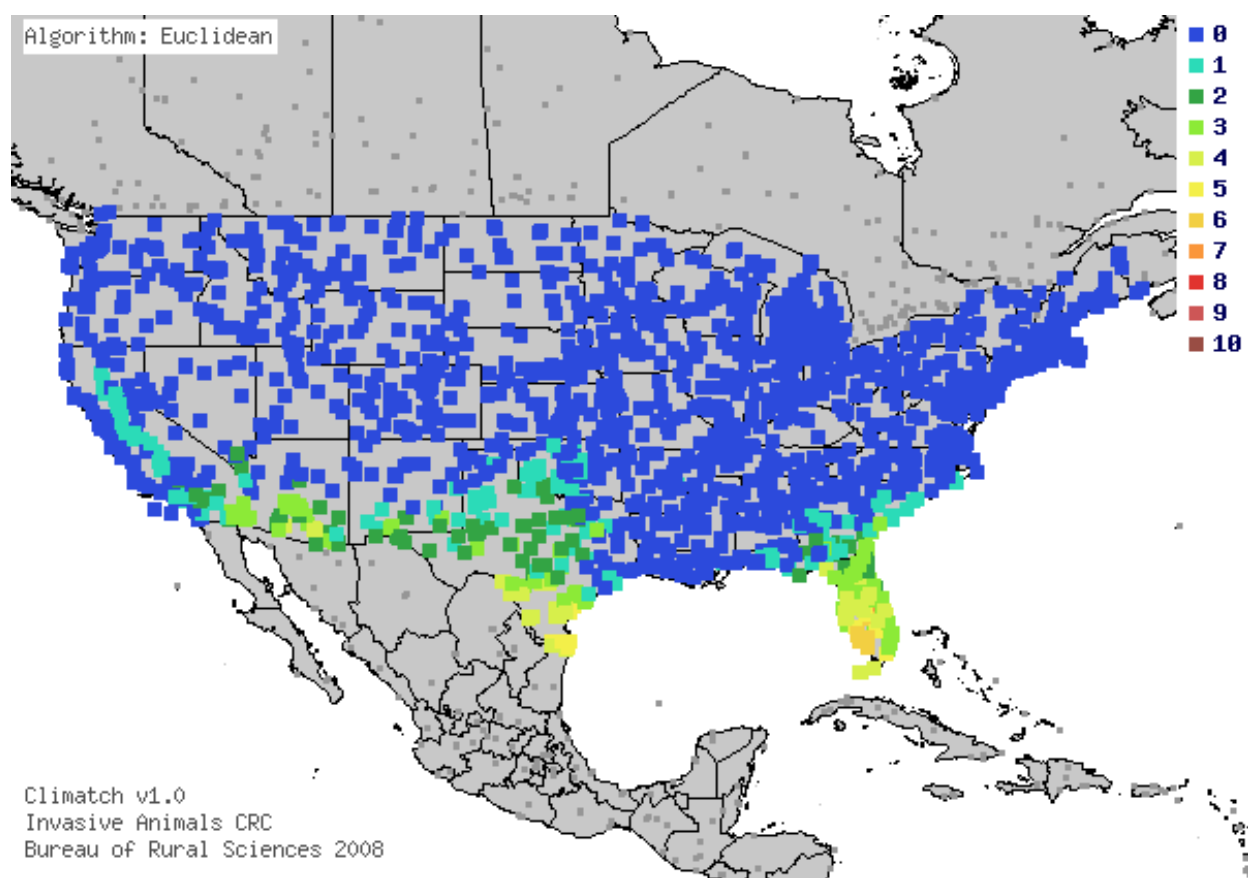
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### Summary of Climate Matching Analysis

The climate match (Australian Bureau of Rural Sciences 2010; 16 climate variables; Euclidean Distance) was Medium in Southern Texas and Southern Florida and Low throughout the rest of the United States. Climate 6 match indicated that the Continental U.S. has a low climate match. The range for a low climate match is 0.0 – 0.005 and the climate match of *Cirrhinus inornatus* is 0.005.



**Figure 2 (above).** CLIMATCH (Australian Bureau of Rural Sciences 2010) source map showing weather stations selected as source locations (red) and non-source locations (blue) for *Cirrhinus inornatus* climate matching. Source locations from GBIF (2011).



**Figure 3 (above).** Map of CLIMATCH (Australian Bureau of Rural Sciences 2010) climate matches for *Cirrhinus inornatus* in the continental United States based on source locations reported by GBIF (2011). 0= Lowest match, 10=Highest match.

**Table 1 (below).** CLIMATCH (Australian Bureau of Rural Sciences 2010) climate match scores

CLIMATCH Score	0	1	2	3	4	5	6	7	8	9	10
Count	1534	161	87	95	57	15	8	1	0	0	0
Climate 6 Proportion = 0.005 (Low)											

## 7 Certainty of Assessment

Peer-reviewed literature on the biology, ecology, and distribution associated with *Cirrhinus inornatus* as well as information on its potential invasiveness is extremely limited. More information and research on this species will be needed to strengthen the certainty of this assessment. The risk level is therefore uncertain, and the certainty of this risk is low.

## 8 Risk Assessment

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### Summary of Risk to the Continental United States

*C. inornatus* has not been introduced outside of its native range and does not appear to be of much interest in the aquaculture or aquarium industry. The overall risk assessment category is uncertain because there is no history of invasiveness for *C. inornatus*, a low climate match, and little further information available.

### Assessment Elements

- **History of Invasiveness (Sec. 3):** Low
- **Climate Match (Sec. 6):** Low
- **Certainty of Assessment (Sec. 7):** Low
- **Overall Risk Assessment Category:** Uncertain

## 9 References

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**Note: The following references were accessed for this ERSS. References cited within quoted text but not accessed are included below in Section 10.**

Australian Bureau of Rural Sciences. 2011. CLIMATCH. Available:  
<http://adl.brs.gov.au:8080/Climatch> (Accessed August 2011).

Froese, R. and D. Pauly (Eds.). 2011. *Cirrhinus inornatus*. FishBase. Available:  
<http://www.fishbase.org/summary/Cirrhinus-inornatus.html> (Accessed August 2011).

GBIF. 2011. *Cirrhinus inornatus*. Global Biodiversity Information Facility. Available:  
<http://data.gbif.org/species/5206440/> (Accessed August 2011).

ITIS. 2011. *Cirrhinus inornatus*. Integrated Taxonomic Information System. Available:  
[http://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=688894](http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=688894) (Accessed August 2011).

## 10 References Quoted But Not Accessed

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**Note: The following references are cited within quoted text within this ERSS, but were not accessed for its preparation. They are included here to provide the reader with more information.**

Roberts, T.R. 1997. Systematic revision of the tropical Asian labeon cyprinid fish genus *Cirrhinus*, with descriptions of new species and biological observations on *C. lobatus*. Nat. Hist. Bull. Siam Soc. 45:171-203.